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¹ Papers: Context-agile encryption for high speed communication networks

Lyndon G. Pierson, Edward L. Witzke, Mark O. Bean, Gerry J. Trombley

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Full text available: pdf(1.43 MB)

Additional Information: full citation, abstract, references

Different applications have different security requirements for data privacy, data integrity, and authentication. Encryption is one technique that addresses these requirements. Encryption hardware, designed for use in high-speed communications networks, can satisfy a wide variety of security requirements if the hardware implementation is key-agile, key length-agile, mode-agile, and algorithm-agile. Hence, context-agile encryption provides enhanced solutions to the secrecy, interoperability, and ...

2 Low-level multimedia synchronization algorithms on broadband networks

Miguel Correia, Paulo Pinto

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available: [\[PDF icon\] html\(59.69 KB\)](#)


Additional Information: full citation, references, index terms

Keywords: broadband networks, distributed multimedia systems, low-level synchronization

³ A dynamic view-oriented group communication service

Roberto De Prisco, Alan Fekete, Nancy Lynch, Alex Shvartsman

June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed computing**

Full text available:  pdf(3.91 MB)

Additional Information: full citation, references, citings, index terms

4 Design of a high-performance ATM firewall

Jun Xu, Mukesh Singhal

November 1998 **Proceedings of the 5th ACM conference on Computer and communications security**

Full text available:  pdf(1.27 MB)

Additional Information: full citation, references, index terms

5 Nested Java processes: OS structure for mobile code

Patrick Tullman, Jay Lepreau

September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**

Full text available:  pdf(725.45 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)



6 Active bridging

D. Scott Alexander, Marianne Shaw, Scott M. Nettles, Jonathan M. Smith

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4

Full text available:  pdf(1.73 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Active networks accelerate network evolution by permitting the network infrastructure to be programmable, on a per-user, per-packet, or other basis. This programmability must be balanced against the safety and security needs inherent in shared resources. This paper describes the design, implementation, and performance of a new type of network element, an Active Bridge. The active bridge can be reprogrammed "on the fly", with loadable modules called switchlets. To demonstrate the use of the active ...



7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...



8 Securing ATM networks

Shaw-Cheng Chuang

January 1996 **Proceedings of the 3rd ACM conference on Computer and communications security**

Full text available:  pdf(1.53 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



9 Report on the seventh ACM SIGOPS European workshop: systems support for worldwide applications

Andrew S. Tanenbaum

January 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 1

Full text available:  pdf(923.32 KB) Additional Information: [full citation](#), [index terms](#)




10 Role-based access control in telecommunication service management—dynamic role creation and management in TINA service environment



Takeo Hamada

October 1998 **Proceedings of the third ACM workshop on Role-based access control**

Full text available:  [pdf\(975.87 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: TINA, role algebra, role class hierarchy, role mapping, role-based access control, security space, strongly-rolled system, telecommunication service management

11 Status of standards

A. Lyman Chapin

April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2

Full text available:  [pdf\(1.79 MB\)](#) Additional Information: [full citation](#), [index terms](#)

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